

**Example 1:**

6 g of a monomer mixture of 0.5355 g of IPDI and 5.4645 g of Tegomer 2311 are mixed with 200 mg of hexadecane and added to a solution of 200 mg of sodium dodecyl sulfate and 24 g of water. After one hour of stirring with the magnetic stirrer at

5 its highest setting, 50 mg of dioctyltin dilaurate catalyst are added, and the miniemulsion is then prepared by two minutes of ultrasonication (Branson Sonifier W450 Digital) at an amplitude of 90% (Branson Sonifier W450) with ice cooling. Subsequently the temperature is raised to 60°C. The reaction is at an end after 2 hours.

10 Particle size: 194 nm

Solids content: 19.00%

Molecular weight:  $51.3 \cdot 10^3$  g/mol

**Example 2:**

15 Like Example 1; the monomer mixture consists of 1.3456 g of IPDI and 4.6544 g of Tegomer 2111.

Particle size: 198 nm

Solids content: 19.96%

Molecular weight:  $40.5 \cdot 10^3$  g/mol

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**Example 3:**

Like Example 1; with dibutyltin dilaurate (DBTL) as catalyst.

Particle size: 434 nm

Solids content: 20.41%

25 Molecular weight:  $20.2 \cdot 10^3$  g/mol

**Example 4:**

6 g of a monomer mixture of 0.6744 g of IPDI, 5.166 g of Tegomer 2311 and 0.152 g of dodecanediol are mixed with 200 mg of hexadecane and added to a solution of 200 mg

30 of sodium dodecyl sulfate and 24 g of water. After one hour of stirring with the magnetic stirrer at its highest setting, 50 mg of dioctyltin dilaurate catalyst are added, and the miniemulsion is then prepared by two minutes of ultrasonication (Branson Sonifier W450 Digital) at an amplitude of 90% (Branson Sonifier W450) with ice cooling. Subsequently the temperature is raised to 60°C. The reaction is at an end after 2

35 hours.

Particle size: 222 nm

Solids content: 19.86%

Molecular weight:  $51.3 \cdot 10^3$  g/mol